

0500

OIPE



SEQUENCE LISTING

DATE: 12/08/2000

PATENT APPLICATION: US/09/724,000

TIME: 14:56:59

Input Set : A:\00450Aseq.txt

Output Set: N:\CRF3\12082000\I724000.raw

ENTERED

```

3 <110> APPLICANT: Polverino, Anthony J.
4   Luethy, Roland
5   Patterson, Scott
7 <120> TITLE OF INVENTION: Secreted Epithelial Colon Stromal-1 Molecules and Uses
8   Thereof
10 <130> FILE REFERENCE: 00,450-A
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/724,000
C--> 13 <141> CURRENT FILING DATE: 2000-11-28
15 <150> PRIOR APPLICATION NUMBER: 09/599,087
16 <151> PRIOR FILING DATE: 2000-06-21
18 <160> NUMBER OF SEQ ID NOS: 21
20 <170> SOFTWARE: PatentIn Ver. 2.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 744
24 <212> TYPE: DNA
25 <213> ORGANISM: Mus musculus
27 <220> FEATURE:
28 <221> NAME/KEY: CDS
29 <222> LOCATION: (38)..(274)
31 <220> FEATURE:
32 <221> NAME/KEY: sig_peptide
33 <222> LOCATION: (38)..(109)
35 <400> SEQUENCE: 1
36 gcttcctccc taggcgtgag actccggtct cttcact atg aga ctt cta gcc ctt 55
37                               1           5
38                               Met Arg Leu Leu Ala Leu
40 tcc ggt ctg ctc tgc atg ctg ctc ctc tgt ttc tgc att ttc tcc tca 103
41 Ser Gly Leu Leu Cys Met Leu Leu Leu Cys Phe Cys Ile Phe Ser Ser
42                               10           15           20
44 gaa ggg aga aga cat cct gcc aag tcc ttg aaa ctc agg cgc tgc tgt 151
45 Glu Gly Arg Arg His Pro Ala Lys Ser Leu Lys Leu Arg Arg Cys Cys
46                               25           30           35
48 cac cta tct cct aga tcc aag ctg aca acc tgg aaa gga aac cac aca 199
49 His Leu Ser Pro Arg Ser Lys Leu Thr Thr Trp Lys Gly Asn His Thr
50                               40           45           50
52 agg ccc tgc aga ctc tgc aga aac aag cta cca gtc aag tca tgg gtg 247
53 Arg Pro Cys Arg Leu Cys Arg Asn Lys Leu Pro Val Lys Ser Trp Val
54 55                               60           65           70
56 gtg cct ggg gct ctc cca cag ata tag ggctcctcc gccagatga 294
57 Val Pro Gly Ala Leu Pro Gln Ile
58                               75
60 agcgttgatg ccagatgtg gagacaccag aagcatacac actatgttgc cttgccctt 354
62 gccaatgagc tgtgacctg gaatgcttca cttcagacat cagggcggat ggattgcaga 414
64 attccaagtc ctcattccaa aggtgtcacc aaccttcaga gtcactaagg tccaggctca 474
66 gccacaaagt caccatggct cctccagagt aaaagtccaa gattccacct gtggagcta 534
68 cagatccaga gactttcaag ctgactagag tgcagagaag caagacctca gtgtgatcag 594
70 ccgagactac agcatcttgg gaacctcag tcagcccca acccctaaca ctttaaccact 654

```

RECEIVED  
JAN-2 2001  
OIPE/JCWS

RAW SEQUENCE LISTING                      DATE: 12/08/2000  
 PATENT APPLICATION: US/09/724,000        TIME: 14:56:59

Input Set : A:\00450Aseq.txt  
 Output Set: N:\CRF3\12082000\I724000.raw

```

72 ggtctccaaa ccaacacctg taacttccta atgaaatcat caggaggata ccaaaagaaa 714
74 laaacataa atcagcatat acactaaaaa 744
77 <210> SEQ ID NO: 2
78 <211> LENGTH: 78
79 <212> TYPE: PRT
80 <213> ORGANISM: Mus musculus
82 <400> SEQUENCE: 2
83 Met Arg Leu Leu Ala Leu Ser Gly Leu Leu Cys Met Leu Leu Leu Cys
84 1 5 10 15
86 Phe Cys Ile Phe Ser Ser Glu Gly Arg Arg His Pro Ala Lys Ser Leu
87 20 25 30
89 Lys Leu Arg Arg Cys Cys His Leu Ser Pro Arg Ser Lys Leu Thr Thr
90 35 40 45
92 Trp Lys Gly Asn His Thr Arg Pro Cys Arg Leu Cys Arg Asn Lys Leu
93 50 55 60
95 Pro Val Lys Ser Trp Val Val Pro Gly Ala Leu Pro Gln Ile
96 65 70 75
99 <210> SEQ ID NO: 3
100 <211> LENGTH: 54
101 <212> TYPE: PRT
102 <213> ORGANISM: Mus musculus
104 <400> SEQUENCE: 3
105 Arg Arg His Pro Ala Lys Ser Leu Lys Leu Arg Arg Cys Cys His Leu
106 1 5 10 15
108 Ser Pro Arg Ser Lys Leu Thr Thr Trp Lys Gly Asn His Thr Arg Pro
109 20 25 30
111 Cys Arg Leu Cys Arg Asn Lys Leu Pro Val Lys Ser Trp Val Val Pro
112 35 40 45
114 Gly Ala Leu Pro Gln Ile
115 50
118 <210> SEQ ID NO: 4
119 <211> LENGTH: 806
120 <212> TYPE: DNA
121 <213> ORGANISM: Homo sapiens
123 <220> FEATURE:
124 <221> NAME/KEY: CDS
125 <222> LOCATION: (29)..(274)
127 <220> FEATURE:
128 <221> NAME/KEY: sig_peptide
129 <222> LOCATION: (29)..(100)
131 <400> SEQUENCE: 4
132 ggaacgaggg aaaatctgcc ttctcacc atg agg ctt cta gtc ctt tcc agc 52
133 Met Arg Leu Leu Val Leu Ser Ser
134 1 5
136 ctg ctc tgt atc ctg ctt ctc tgc ttc tcc atc ttc tcc aca gaa ggg 100
137 Leu Leu Cys Ile Leu Leu Cys Phe Ser Ile Phe Ser Thr Glu Gly
138 10 15 20
140 aag agg cgt cct gcc aag gcc tgg tca ggc agg aga acc agg ctc tgc 148
141 Lys Arg Arg Pro Ala Lys Ala Trp Ser Gly Arg Arg Thr Arg Leu Cys

```

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/724,000 DATE: 12/08/2000  
 TIME: 14:56:59

Input Set : A:\00450Aseq.txt  
 Output Set: N:\CRF3\12082000\I724000.raw

```

142 25          30          35          40
144 tgc cac cga gtc cct agc ccc aac tca aca aac ctg aaa gga cat cat 196
145 Cys His Arg Val Pro Ser Pro Asn Ser Thr Asn Leu Lys Gly His His
146          45          50          55
148 gtg agg ctc tgt aaa cca tgc aag ctt gag cca gag ccc cgc ctt tgg 244
149 Val Arg Leu Cys Lys Pro Cys Lys Leu Glu Pro Glu Pro Arg Leu Trp
150          60          65          70
152 gtg gtg cct ggg gca ctc cca cag gtg tag cactcccaaa gcaagactcc 294
153 Val Val Pro Gly Ala Leu Pro Gln Val
154          75          80
156 agacagcgga gaacctcatg cctggcacct gaggtaccca gcagcctcct gtctccctt 354
158 tcagccttca cagcagttag ctgcaatggt ggagggtctt atctcgqgct gcaaggaccc 414
160 tgggaaagtt ccagaactcc acgtccttgt ctcaattgtg ccatcaactt tcagagctat 474
162 catgagccaa cctcacccca cagggcctca gtgcgcccca tgtgggcctc tccagtgcga 534
164 accaccgagc attccaccat gaccggtcac agctacaaat ccagagacca tcaatcctgc 594
166 tagagtgcag ggtggcaang acccaagggt ggctgaccaa gactgcagag tctcctccat 654
168 ctccaggtcc attcagcttc ctggcattta actaccagca tccagtggtc cccaaggaaat 714
170 ccttccttag cctcctgaca tgagtctgct ggaaagagca tccaaacaaa caagtaataa 774
172 ataaataaat aaactcaatg cagacacaaa aa 806
175 <210> SEQ ID NO: 5
176 <211> LENGTH: 81
177 <212> TYPE: PRT
178 <213> ORGANISM: Homo sapiens
180 <400> SEQUENCE: 5
181 Met Arg Leu Leu Val Leu Ser Ser Leu Leu Cys Ile Leu Leu Leu Cys
182 1          5          10          15
184 Phe Ser Ile Phe Ser Thr Glu Gly Lys Arg Arg Pro Ala Lys Ala Trp
185          20          25          30
187 Ser Gly Arg Arg Thr Arg Leu Cys Cys His Arg Val Pro Ser Pro Asn
188          35          40          45
190 Ser Thr Asn Leu Lys Gly His His Val Arg Leu Cys Lys Pro Cys Lys
191          50          55          60
193 Leu Glu Pro Glu Pro Arg Leu Trp Val Val Pro Gly Ala Leu Pro Gln
194 65          70          75          80
196 Val
199 <210> SEQ ID NO: 6
200 <211> LENGTH: 57
201 <212> TYPE: PRT
202 <213> ORGANISM: Homo sapiens
204 <400> SEQUENCE: 6
205 Lys Arg Arg Pro Ala Lys Ala Trp Ser Gly Arg Arg Thr Arg Leu Cys
206 1          5          10          15
208 Cys His Arg Val Pro Ser Pro Asn Ser Thr Asn Leu Lys Gly His His
209          20          25          30
211 Val Arg Leu Cys Lys Pro Cys Lys Leu Glu Pro Glu Pro Arg Leu Trp
212          35          40          45
214 Val Val Pro Gly Ala Leu Pro Gln Val
215          50          55
218 <210> SEQ ID NO: 7

```

RAW SEQUENCE LISTING                      DATE: 12/08/2000  
 PATENT APPLICATION: US/09/724,000        TIME: 14:56:59

Input Set : A:\00450Aseq.txt  
 Output Set: N:\CRF3\12082000\I724000.raw

219 <211> LENGTH: 77  
 220 <212> TYPE: PRT  
 221 <213> ORGANISM: Rattus norvegicus  
 223 <400> SEQUENCE: 7  
 224 Met Arg Leu Leu Thr Leu Ser Gly Leu Phe Phe Met Leu Phe Leu Cys  
 225    1                      5                      10                      15  
 227 Leu Cys Val Leu Ser Ser Glu Gly Arg Lys Arg Pro Ala Lys Phe Pro  
 228                      20                      25                      30  
 230 Lys Leu Arg Pro Arg Cys His Leu Ser Pro Arg Ser Lys Pro Ile Thr  
 231                      35                      40                      45  
 233 Trp Lys Gly Asn His Thr Arg Pro Cys Arg Pro Cys Arg Lys Leu Glu  
 234                      50                      55                      60  
 236 Ser Asn Ser Trp Val Val Pro Gly Ala Leu Pro Gln Ile  
 237    65                      70                      75

240 <210> SEQ ID NO: 8  
 241 <211> LENGTH: 4159  
 242 <212> TYPE: DNA  
 243 <213> ORGANISM: Homo sapiens  
 245 <220> FEATURE:  
 246 <221> NAME/KEY: unsure  
 247 <222> LOCATION: (160)..(169) ✓  
 249 <220> FEATURE:  
 250 <221> NAME/KEY: unsure  
 251 <222> LOCATION: (3884)..(3893) ✓  
 253 <220> FEATURE:  
 254 <221> NAME/KEY: exon  
 255 <222> LOCATION: (1)..(69) ✓  
 257 <220> FEATURE:  
 258 <221> NAME/KEY: exon  
 259 <222> LOCATION: (2627)..(2725) ✓  
 261 <220> FEATURE:  
 262 <221> NAME/KEY: exon  
 263 <222> LOCATION: (4079)..(4159) ✓  
 265 <400> SEQUENCE: 8

266 atg agg ctt cta gtc ctt tcc agc ctg ctc tgt atc ctg ctt ctc tgc 48  
 268 ttc tcc atc ttc tcc aca gaa ggtagggcag cccccagggt gcagatccct 99  
 270 gagcaggatt tcagcatctg ggaagactct gatcaggatt tggtggaggg caggccttgg 159  
 W--> 272 nnnnnnnnnn cgcgcgtaact tccagcccg tggatgaagac gaaagagggc tctttctcct 219  
 274 gaacctatag gtttggggct caggactgcc tgcagggtggc ttgggggttc cattcacagc 279  
 276 ccctgcaccc ccaaatacat acccagccta agtaaaagtgg tgtgttcgcc atgcaaacac 339  
 278 acatacaacc tctcagctag attactgtgc ttaagtccta cctatctaga atttctggag 399  
 280 ccattctctt gtacttgtgt catgcttggg acagagttaa ttagtggtgg gcaaatgaat 459  
 282 acattaatta gtagaccatc taagtctgaa catcccaaaa cctcatgccc agaaaatata 519  
 284 catgagcagc tgaaatgaag gtgtgtgtgg tagggagggtg gggatatgtt atgcatgttt 579  
 286 agaaggggac accatctttt tacctctata gatatgaata tttagctctc ttgccctttt 639  
 288 tttttttttt tttttttttt tttttttgag atggagtctt gctctgtcac ccaggctgga 699  
 290 gtgcagtggc gctatctcag ctcaactgcaa tctccgcctc ctgggttcaa gcaattctct 759  
 292 gcctcagcct cccaagtagc tgagattaca ggtgccacc accaagccca gctaattttt 819  
 294 gtatttttag tacagacaggt tttcaccatc ttggccaggc tggctctgaa ctccataacct 879

## RAW SEQUENCE LISTING

DATE: 12/08/2000

PATENT APPLICATION: US/09/724,000

TIME: 14:56:59

Input Set : A:\00450Aseq.txt

Output Set: N:\CRF3\12082000\I724000.raw

```

296 cgtaatcctc ccacctcggc cteccaaagt gctgggatta caggcgtgag ccaccatgcc 939
298 tggctgcctt tcttgattca gatagctgag tglttcaatc catllttctc ttgtotaacc 999
300 ctctagaaac tgcctacatt tatlittityt tttagtgggt atggttactc aaacttttgg 1059
302 gtggggggag ctggagctat agaaatatat aaagagaaga aaaacactca attccatgat 1119
304 tcaagagtaq ccatgttcaa catllttgtt atttcttgc atgtagaatt tttaaaaatt 1179
306 aattgatgta cctatgtgtt caaggttata tctlltttat ttatcactat atatatgtt 1239
308 ataatacccc aaaaatgctta tgattgaaqa tatlcttqga qcatlltcaa cccagtgtca 1299
310 qcagcagcca tctctgagta gtgggattat aacaagtgtt tgtllttcaa agtttctgcg 1359
312 atgaaaatgt cccacutata taataaggaa aacagtgtt agaatctctc ataaacacag 1419
314 cccgtgacat gcaatttlatc agacctctat ttttgacat gttggagggt gccagtgtata 1479
316 cctagtgtac aattaaatga ggatagatac ctcccccat aaagtctcct atccatttag 1539
318 gactatctgt agcaaacctc tgaagtagca ttaataaact aatattttca ggtataactt 1599
320 gctacaagtq aacgtactat gatgaattta catgcttaga catttagata gttcaccaatt 1659
322 gttgtgcttt cctlltttga agcaagatct tgcctctctg ccaggtctcg agtgcagtgg 1719
324 catgaccacg gctcagtgtca ggcttgactt ccagggctca agcaatactc gcacctcagg 1779
326 ttttccagta gctgggaaaa caggtgcgca ccacaatgcc ctgctaattt ttaaaatttt 1839
328 ttgcagagac gaggctctctc taagtgtccc aggtctgtct tgaactctct gactcaagcc 1899
330 attcctcccc cttggctctc cagagtgtca ggatcacagg catgagccac cacacctggc 1959
332 ctacttttga catttttaatt atgtgtgtaa aggtatatat gtacataaag tatgtccttt 2019
334 attcaggctt ttttctttt tttcttttt ttatttttt gagacgaagt tttgtctctt 2079
336 gttgtccagg ctggagtgtat atggcatgct cttggctcac cacaacctcc gctctccggg 2139
338 ttcaagtgtat tctcctgctt caacctctct agtagctggg attacaggca tgcaccaaca 2199
340 tgcaggctgt attttgtatt tttagttag atggggtttc tccatgttgg tcaggctggg 2259
342 ctgaaacact cgacctcaag tgcctcggcc acctcagcct cccaaagagc taggattaca 2319
344 ggcattgagc accacaccca gctcagggtt tatlctctta ggttagattg ccaaggggag 2379
346 aattattatg tcaagaaac tacttattgg acaggaaatc gaaaaggatg tgttttgggg 2439
348 ccatgtgtct cccaacattg ttatttctga aaagtaaatc acaacaaggc cactcttttc 2499
350 cctaggacct ctctgagcct ggctcatcct gagtttctct ggataaatat tcttgagccc 2559
352 tgtgccttgg aaggggaagc tcactcacag acaagccac taaagacagt ctctcttctt 2619
354 ttgtgtc ccc cct cag gga aga ggc gtc ctg cca agy cct ggt cag gca 2668
356 gga gaa cca ggc tct gct gcc acc gag tcc cta gcc cca act caa caa 2716
358 acc tga aag gtaagtaccc ccacctcgtc cagactgtgg ggcagaagtt 2765
360 ctacagtggc catgggaacca gccacacaca ctgatcagcc cccacctatg gctggcatca 2825
362 ggtctctggc gggaggacat ctttgttttg ttgatttaatt tgttgactcc cccccaaaag 2885
364 tcaacaaatt aatcatlltta aactgaatac attctgccat ggaaaaaaag caggatgcaa 2945
366 ttgacagatg ttgtgtggaa acacacttac tttagggtgga aggtgtctga gcagggtgaa 3005
368 tttatgagac ctggctcatt tatgagccag gagcctggct gaggcctgtg gaggtggggc 3065
370 atgcaggcag aggagggcagc aagggtgaa ggcagaagtg ggttatggaa gacagatggt 3125
372 agcagggtct gagaggtact cccagaagct aaggacaaaa gctgctctgt aacctgtgg 3185
374 acctggggca cagatcagca tgcaggctac cagcagggga gtgggctga ggtccagag 3245
376 agccatagct tggcaggaga taaggcagcc ccagagatgc cagcaggcag catccaggct 3305
378 gcatgaccag aacgaggccc agaagagcaa ggctgcccct tccctgaggc ctggggacac 3365
380 tgggaggcct gtggcggaca ggcccaagct caggagggtc gcgggcaccc agttccctgc 3425
382 acaggggcty caggcccaga gcagataatc actggagtgt ccagcccag gtggaaagggt 3485
384 caggctgcty gactctgggt agggcaggca gatccccaag gggagactgt ggaacctgag 3545
386 tcagacagcc tgacaccaac ctggggctcc tgcctgaact ctgcagcccc agtgcacct 3605
388 ctcaagagggc tgaggaggtc ccggccccac ttgctcctct gcggccatgg cccatgggg 3665
390 ccatgaccag cggcggagcc tccatgcctt tcccagctac caaggggatg ctcagctgtg 3725
392 atgcaggaga gggatagagg yaggaagcaa gacagcatga ctccagccgc agacctctc 3785

```

VERIFICATION SUMMARY                      DATE: 12/08/2000  
PATENT APPLICATION: US/09/724,000        TIME: 14:57:00

Input Set : A:\00450Aseq.txt  
Output Set: N:\CRF3\12082000\I724000.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:272 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:8  
L:272 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:8  
L:396 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:8  
M:340 Repeated in SeqNo=8